12-11-1928

The Tech News Volume 20, Issue 9, December 11 1928

The Students of Worcester Polytechnic Institute

TECH NEWS

VOL. 20 WORCESTER, MASS., DEC. 11, 1928 NO. 9

TROPHY CAUSES CLASS RIVALRY

Sophomores Publish Picture of Goat's Head

Several days ago a photo of the miniature bronze goat, the object of intense rivalry between the even and odd classes here at Tech, appeared in the local papers in the possession of several members of the Sophomore class. The bewildered Freshmen, caught off guard, immediately protested, claiming that the report was false. As yet, however, no proof has been offered by the Class of '32 to show that the claim of the Class of '31 is untrue.

When the Goat's Head Committee of the Sophomore Class was interviewed it failed to reveal any further information, but simply passed the inquiry off with a smile, saying that it had presented its proof.

The Class of '1932 seems to be rather quiet about the affair and nothing could be learned from this source.

For a time everything had been quiet. The Sophomores had followed up every possible clue and the article in the lcoal papers was the first indication of any change in hands. The picture showed the miniature goat on a table before four members of the Class of 1931. It remains to be seen which class will actually produce the goat during the year, as is required by the goat's head rules. Intense rivalry has been shown by the classes and the goat may change hands several times before the year is over.

The entire student body awaits a refutation by the Freshman class, as to the veracity of the yearling's claims.

SKEPTICAL CHEMISTS HOLD REGULAR MEETING

Four Interesting Talks Given

A meeting of the Skeptical Chemists was held last Tuesday evening, December 4. A large number of students were present and four very interesting talks were given.

The first was by H. Edwin Hosmer on the subject of "Something for Nothing." The article dealt with the type of scientific fakers that have cashed in on the credulity of the people who hope for quick riches. The address was based on an article written by William Hoskins, a distinguished consulting, research, and analytical chemist.

The next talk was on the subject of the Cosmic Ray and was given by William Doyle. The cosmic ray has the power of ionizing air and does not lose its power until it has passed through eighteen feet of lead or two hundred feet of water. This type of extremely powerful ray is the result of the building up of atoms.

David Armitage addressed the society on the "Development of the Cracking Process in the Petroleum In-

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TECH SWIMMING TEAM WILL OPPOSE BROWN

Team Is Prepared for Hard Meet

After many weeks of laborious practice in mastering certain fundamental strokes requisite of all good swimmers, the Tech natators, who have been guided by the careful coaching of "Herb" Ashjian, are ready to meet their first and foremost rival, from Brown Unviersity, in the Tech pool this Saturday afternoon. Captain Larson will lead his team of aquatic stars against this invading aggregation, who defeated the Techsters last year, in their home swimming pool at Brown. The Tech swimmers are hoping to avenge this former defeat. Saturday's meet with Brown is expected to be the hardest one that Captain Larson and his swimmers will have to face this season.

Every year Brown has produced one of the finest aquatic teams among the colleges in New England. There are several veterans from last year's team, namely Hall, Arnold, Sitter, Borden, Sullivan, and Henry, who will furnish

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ROBOT IS SHOWN TO ENGINEERS

Automatic Man Is Demonstrated by R. J. Wensley

An automatic man, whose senses are both ends of a telephone connection, and whose functions imitate those of a flawless butler, was the center of attraction yesterday before a group of students and engineers of the A. I. E. E. assembled in the lecture room of the E. E. building. The demonstration was made by the inventor R. J. Wensley, an eminent member of the engineering staff of the Westinghouse Electric and Manufacturing Company. His device which responds to the voice of the master more faithully, perhaps, than some of the modern servants, is called the "Televox".

Mr. Wensley portrayed the usefulness of such a mechanical man in the home, a mechanical man taught, or as the scientists would say, designed or constructed to turn on the percolator when ordered to do so by telephone and also to turn the draft of the furnace on or off, and to start or stop (especially stop) the electrical player piano. Hearing the lecture one could imagine the following scene: At the office we pick up the telephone and call the house number, let us say "Jones 1234". The telephone at home is so arranged that when the telephone bell rings the mechanical man, which has been given the name of Televox, lifts the receiver by means of a relay, a buzzing sound comes back to us telling us that we have the correct number. If Televox had been called by mistake it would hold the wire for a minute and, failing to receive proper orders, would hang up.

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FROLIC TO TAKE PLACE TONIGHT

Gym Will Be Scene of Annual "Y" Carnival and Dance

Tonight at eight o'clock, in the Alumni Gymnasium, the thirteenth annual Tech Carnival will be held under the auspices of the College "Y." As usual there will be the comedy sketches by the Freshmen, Sophomores, and the Faculty. However, everyone's curiosity has been aroused as to what the Faculty are planning for amusement, as Mr. De La Mater, who again has charge of the act, has been strangely silent on the subject, making public only the statement which appears in the program below. There have also been unofficial rumors floating here and there that the Goat's Head will at this time make its first public appearance since it was placed in competition, as this and the Tech Banquet are very opportune times for its appearance. However, both lower classes are maintaining a discreet silence on this subject.

"Doc" Covell, already noted for his ability in wizardry and on the stage, is directing the Freshmen in their act,

(Continued on Page 5, Col. 1)

CALENDAR

TUESDAY, DEC. 11:
- 9:50 A. M.—Chapel Service, Rev. A. J. Lourell.
- 4:15 P. M.—Competitors for Cheer Leader in Gym.
- 4:15 P. M.—Interfraternity Relay Race.
- 8:00 P. M.—Tech Carnival in Gymnasium.

WEDNESDAY, DEC. 12:
- 9:50 A. M.—Chapel Service, Rev. A. J. Lourell.
- 4:15 P. M.—Interfraternity Relay Races.
- 7:00 P. M.—Cosmopolitan Club meeting in Sanford Riley Dormitory.

THURSDAY, DEC. 13:
- 9:50 A. M.—Chapel Service Rev. Thomas Foxall.

FRIDAY, DEC. 14:
- 9:50 A. M.—Chapel Service, Rev. Thomas Foxall.
- 11:00 A. M.—Student Assembly in Gymnasium.
- 4:15 P. M.—Interfraternity Relay Races.
- 9:00 P. M.—Interfraternity Dance in Bancroft Hotel.

SATURDAY, DEC. 15:
- 2:30 P. M.—Varsity Swimming Meet: W. P. I. vs. Brown in Fuller Pool.
- 8:00 P. M.—Varsity Basketball Practice Game, W. P. I. vs. Whitinsville, at Whitinsville.

MONDAY, NOV. 17:
- 9:15 A. M.—Chapel Service.
- 4:00 P. M.—TECH NEWS assignments in B-19.
- 4:15 P. M.—Interfraternity Relay Races.

INTERFRATERNITY DANCE WILL BE FRIDAY NIGHT

Ruby Newman to Furnish Music

The coming Friday evening holds in store for Tech dance lovers one of the biggest treats of the year. This big formal event is the Interfraternity Dance, which is to take place in the spacious ballroom of the Hotel Bancroft. In former years this affair has been held in the spring, but the committee thought it expedient to change the date to the fall, thus avoiding conflict with the Junior Prom. This year the dance promises to be an even greater success than in former years.

Music will be furnished by Ruby Newman and his Hotel Ritz-Carlton orchestra. Several out-of-town bands were considered, but this Boston team was selected and all who attend may be sure of the highest quality of dance music. The committee in charge has arranged a fine program of sixteen numbers with four extras, two of which will precede the regular program. The dance, as usual, will begin at nine o'clock and end at two.

The patrons and patronesses are: President and Mrs. Ralph Earle, Professor and Mrs. H. B. Smith, Professor and Mrs. A. S. Richey, and Professor and Mrs. J. W. Howe.

R. L. Verville, C. R. Fay, A. R. Cushman, C. R. Gill, M. P. Finney, J. Wooley and E. R. Smith are the members of the committee in charge of the event.

ASSEMBLY WILL BE HELD FRIDAY

Mr. Geo. Hannauer, Pres. of B. & M. Will Speak

The next student assembly will be held on Friday, December 14th at 11 o'clock in the gymnasium. Mr. George Hannauer, President of the Boston & Maine Railroad, will be the speaker. The subject of his address will be "Deductions from the School of Experience."

At this time Tau Beta Pi will pledge new men from both the Senior and Junior classes. Football and Track insignia will probably be awarded.

Mr. Hannauer was born in St. Louis and of German parentage. At the age of thirteen he was an office boy in a firm of brokers. His employers became interested in him and strongly urged him to improve his education. With this encouragement Mr. Hannauer studied during his spare time and was able to secure a fine education in this way. He became the clerk of the brokerage house and four years later, in 1890, he secured with their help a clerkship in the Terminal Railroad Association at St. Louis. Here he worked as yard conductor and chief clerk to the superintendent. In 1900 he was general yard master and in 1902 clerk to the general superintendent. The following year, Mr. Hannauer became

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A. I. E. E. HONORS PROF. H. B. SMITH

He Receives the Nomination for Presidency

OFFICE HAS BEEN HELD BY MANY NOTED MEN INCLUDING BELL, PUPIN AND STEINMETZ

Professor Harold B. Smith, head of the Electrical Engineering department, has been nominated for the presidency of the national organization of the American Institute of Electrical Engineers. He was nominated by the Institute's nominating committee and the machinery of the Institute is such that his election is practically assured. It is a matter of interest that he was nominated by a unanimous first ballot.

The American Institute of Electrical Engineers has a very distinguished line of former presidents among whom are found such men as Alexander Graham Bell, inventor of the telephone, Dr. Michael I. Pupin of Columbia University, and Charles P. Steinmetz, well-known wizard of the General Electric Company. At present the organization is headed by Rudolph F. Schuchardt, chief engineer of the Commonwealth Edison Company of Chicago.

Professor Smith's career shows him to be well-fitted for the position.

He was born in Barre, May 23, 1869, the son of Samuel Francis and Julia Asenath (Babbitt) Smith. He received his engineering education at Cornell University from which college he graduated in 1891. He performed nearly two years of post-graduate work there, and for part of that time he was an instructor in Electrical Engineering at the Unviersity of Arkansas.

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FIFTEEN MEN ARE OUT FOR THE HOCKEY TEAM

Team Practices Twice Weekly

A new activity, hockey, which will be entirely independent of the many college activities, has recently been started here on the Hill. This has met with the approval of President Earle, who has chosen Mr. Higginbottom, coach of soccer, as faculty advisor of the team. Bancroft of '32 and Barnes of '30 are doing as much as possible to promote this sport.

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RECEIVES SCHOLARSHIP

Richard K. Irons, a graduate of Tech in the class of 1927 has been awarded a Rhodes scholarship according to an announcement made recently by Dr. Frank Adelotte, president of Swarthmore college and American secretary of the Rhodes trustees. Irons is the first Tech man to receive a Rhodes scholarship

COME TO TECH CARNIVAL TO-NITE!

TECH NEWS

Published every Tuesday of the College Year by
The Tech News Association of the Worcester Polytechnic Institute

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Subscription per year $2.00, single copies, $.07. Make all checks payable to Business Manager. Entered as second class matter, September 21, 1910, at the postoffice in Worcester, Mass., under the Act of March 3, 1897.

THE HEFFERNAN PRESS
Spencer, Mass.

December 11, 1928

JUST FOR AN HOUR

At the last college assembly we noticed a rather meagre attendance from all classes. Especially did we notice the large number of absences in the Freshman section. A great many men were evidently trying to utilize this hour in getting in some last minute "preping" for an afternoon class. Perhaps a few were not trying to utilize it at all. However the case may be, it was evident after we had listened to Dr. Whitney for a few minutes that every man who had "cut" assembly was missing an opportunity which probably would never be presented to him again. As we fell more and more under the charm of Dr. Whitney's personality we forgot all about these men and it was not until some time later that we thought any more about them.

Suffice to say that when we came away after that all too brief talk we actually felt imbued with the same spirit of enthusiasm, of dynamic drive, which was the dominant feature of Dr. Whitney's personality We felt that we had gained something during that hour which, most likely, we would not have gained had we not heard Dr. Whitney speak.

"I never work," he said, "I find something I like to do and then have a lot of fun doing it." Then again, "I am having more fun now than I ever had before in my life."

Here indeed was a new viewpoint of work. Was it a sound one? As we pondered over these remarks we felt their underlying truth more and more. Their impression was lasting.

Then sometime later, as we said before, we thought of those men who had not heard Dr. Whitney. They had invested that particular hour in some definite work or perhaps they had squandered it in a few hands of bridge. What returns on their investment were they getting? A report finished on time, a few extra problems done or perhaps a pleasant diversion. Sufficient returns perhaps for an hour's investment but not for this particular hour.

As a mere business proposition if you had a chance to invest sixty dollars in stock which guaranteed a five per cent return or in stock which guaranteed a ten per cent return there would be no question as to which investment you would choose. However, opportunities for good financial investment are not always present. Now if you had the opportunity of a lifetime's returns on an investment of sixty minutes would you take it? If you were half-awake we'll wager you would. But neither are opportunities for good investment of time always present either.

Some hours have undoubtedly a higher potential value for you than others. The hour of assembly is one of them. Try investing this particular sixty minutes in something which may result in a lifetime's returns. It may be a new viewpoint on life, new enthusiasm for your work or new courage to face your particularly difficult problems.

Some hours are worth more than others. Watch for those which may be invested for a lifetime's returns, then use them wisely!

COMPETITORS FOR CHEER LEADERS ARE WANTED

First Tryouts This Afternoon

Head Cheer-Leader Frank Wiesman announces that the first tryouts for cheer-leader competitors will take place this afternoon at 4:15, in the Gym Reception Room.

All Sophomores and Freshmen interested in this activity are urged to come to this first meeting, for at this time it is expected that plans will be made for practices and instruction throughout the year. Previous experience is unnecessary, as ample opportunity will be given the candidates to develop the necessary technique and confidence. What is required however is a strong interest in Tech activities and a desire to bring W. P. I. to the top in our athletic engagements with other colleges.

HOCKEY TEAM PRACTICES

(Continued from Page 1, Col. 5)

Professor Carpenter, head of the Department of Physical Education, is willing to do all he possibly can for the students who are interested in this new sport, although this activity will not be under the supervision of his department. The college has some hockey equipment at hand and Professor Carpenter will loan this to the student-players.

Arrangements for games with school teams or independent teams in the city are to be made soon. It is hoped that a game with Worcester Academy will be arranged at a later date.

SHOP NOTES

The Washburn Shops have added a new machine to the line of products which they have manufactured.

A wire drawing machine for No. 5 rod has been designed and built for the Atlantic Wire Co. of Branford, Conn. It is a three block machine, the first block being of double deck construction. The blocks are driven by an electric motor through herringbone gears. Multiple disk friction clutches serve to start and stop the wire blocks.

The machine which was one of the largest ever built by the Washburn Shops was constructed under the supervision of Mr. Nakashian and Mr Rawson.

INTERFRATERNITY RELAY RACES ARE STARTED

A. T. O. Team Sets Fastest Time

On last Wednesday, December 5, the interfraternity relay race season began when Phi Sigma Kappa scored a victory over Theta Chi. These races as in previous years are run off Monday, Wednesday and Friday afternoons at 4:15 P. M. On each of these afternoons four races are run, representatives of each of the eight fraternities on the Hill competing for the honor of their respective fraternities.

The team representing Alpha Tau Omega, composed of Aiken, Fisher, Heald and Hathaway, in winning its race against Theta Upsilon Omega set the best time of any team for the present season.

Results of races on Wednesday.

Phi Sigma Kappa defeated Theta Chi. Time; 2 minutes 26 seconds.

Phi Gamma Delta defeated Sigma Alpha Upsilon. Time; 2 minutes 28⅗ seconds.

Alpha Tau Omega defeated Theta Upsilon Omega. Time; 2 minutes 24⅖ seconds.

Lambda Chi Alpha barely nosed out Sigma Omega Psi's three man team.

Results of races on Friday.

Phi Sigma Kappa defeated Lambda Chi Alpha. Time; 2 minutes 27 seconds.

Theta Upsilon Omega defeated Sigma Alpha Epsilon. Time; 2 minutes 27⅗ seconds.

Alpha Tau Omega defeated Phi Gamma Delta. Time 2 minutes 24⅗ seconds.

The race between Theta Chi and Sigma Omega Psi was postponed until Tuesday.

PIANO PRESENTED

Mrs. Moses B. Kaven has presented a grand piano to the Institute which has been placed in the main reception room of Sanford Riley Hall.

This handsome instrument, purchased at the Marcellus Roper Company, will be used by the Faculty Ladies' Club. The piano takes the place of the one used in the gymnasium when the club held its meetings there.

Mrs. Moses B. Kaven is the wife of Mr. Moses B. Kaven, W. P. I. '93, who is a member of the board of trustees of the Institute.

NEWLY FORMED AVIATION CLUB ELECTS OFFICERS

E. S. Pierce Elected President

The second meeting of the Aero Club was held in the M. E. lecture room on Tuesday, November 27. The officers who were elected for the coming season are as follows: E. F. Pierce, president; A. L. Johnson, vice-president; W. L. Crosby, secretary; W. J. Pearson, treasurer.

Mr. Pearson gave a fine talk on his own experiences of the past summer at an aircraft motor manufacturing plant. He discussed the procedure of testing a newly designed engine.

The subject of dues was postponed until the next meeting, the date of which will soon be announced.

RAILROAD PRESIDENT TO SPEAK AT ASSEMBLY

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affiliated with the Wiggins Ferry Co. as superintendent where he had in charge its controlled properties, the East St. Louis Connecting Railroad Co. and the St. Louis Transfer Railroad.

In 1907 he entered the New York Central system as superintendent of the Chicago, Indiana, and Southern Railroad. In 1911 he was General Superintendent; 1912, general manager; 1920, vice-president; 1922, also vice-president of Chicago River & Indiana Railroad and its leased property, the Chicago Junction Railroad.

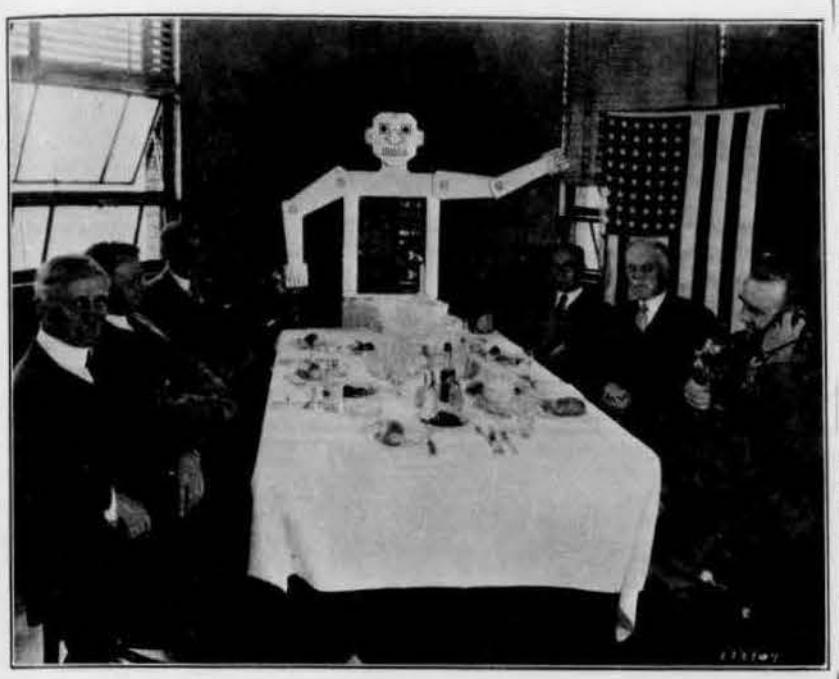
In 1917, when the United States went into the World War, Mr. Hannauer was made chairman of a committee on coordination of the Chicago Terminal. It was abolished when the government assumed control, but was again reconstituted after the United States released control and Mr. Hannauer was re-elected chairman.

In 1927 Mr. Hannauer became president of the Boston & Maine Railroad.

Homer Loring, former chairman of the board of directors of the Boston & Maine, says: "Mr. Hannauer is an outstanding figure as a railroad official in the operation of Terminal Railroads, of which the Boston & Maine is a conspicuous example. He handled difficult situations in railway operation in Chicago, which is the greatest railroad center in the world. He has been able to apply progressive ideas to effect improved operating results."

ROBOT SHOWN TO ENGINEERS

(Continued from Page 1, Col. 2)



ROBOT, THE MECHANICAL MAN PERFORMS

"Are you there?"
To Automaton

"We have Televox on the wire now. In front of our office telephone we have a box or cabinet containing three tuning forks, an amplifying device and a howler or loud-speaker. We press a button which actuates one of the tuning forks and we hear a sound something like the note of a piccolo which means to Televox. "Are you there?" We get a buzz in reply which means, "All set!" We then press another button which again causes a sound to be produced from our cabinet; this sound is picked up by the telephone transmitter and means to Televox. "Put me in connection with the percolator". Or it might mean, "with the draft" or "with the piano", depending on how many peeps our tuning fork produces. Back over the telephone receiver comes a short buzz which means, "There you are; it is not percolating at this moment". Then we press a button again and produce a "toot" which means to Televox "Shut the switch and start the percolator". Back comes a long buzz from Televox which means, "Switch closed, coffee percolating".

Similarly we could find out the condition of the draft and whether the piano was playing, and we could leave instructions to continue or change. Finally, we send a tuning fork signal to Televox which means "Goodby" and Televox hangs up.

At the Televox end of the telephone line we have a microphone which picks up the tuning fork signals or simplified language instructions we send over the telephone. The sound emitted from the microphone causes certain sound-sensitive relays to function. If the signal comes over once it means, for example, "percolator", twice, "draft", three times "piano", and the appropriate switch is connected. As the circuit is completed we hear a buzz which by its shortness or length indictates that the switch is open or closed as the case may be. Then we can order the switch connection to be changed or to remain as it is. And finally we "toot" off.

Distance is no barrier to the Televox as the ordinary telephone is used. Its present usefulness is limited to operating and supervising lighting circuits at distant points from a central station by one centrally located supervisor without human assistants at the distant points. The operations of running a vacuum sweeper and a coffee percolator have been tried and demonstrated repeatedly, but they are hardly commercial uses yet. However, the time may soon come when we will carry in the desk drawer or possibly even in a coat pocket a supply of small tuning forks which will enable us to call up home or the office and issue instructions with the firm assurance that orders will be obeyed literally and at once.

Mr. Wensley is an inventor who obtained the major part of his education in the school of hard knocks. Born May 5, 1888 in Indianapolis, Indiana, he spent the earlier years of his life in this city. It was here that he attended common school, but at the end of his first year in high school he said goodbye to his instructors and classmates and set out to get a job. That was in 1902. The Sanborn Electric Company offered him a job as wireman's helper and general utility man.

In 1909, Mr. Wensley became an employee of the Merchants Heat and Light Company of Indianapolis as Assistant to the chief engineer. He served in this capacity for four years, and then went to Grand Rapids, Michigan when he occupied a similar position with the American Public Utilities Company.

The Westinghouse Electric and Manufacturing Company employed Mr. Wensley in 1916 as a switchboard engineer. His career with this company has been especially noteworthy. His particular field has been in the design of automatic switching equipment and supervisory control. At present, he is the section engineer in charge of that department. He is recognized as being the foremost authority of the country in this field, in which he has designed and developed some outstanding improvements and inventions. One of his most recent, and one which is receiving more worldwide publicity than any other present day invention is the Televox or Mechanical Man. The possibilities of this invention are so great and the applications so numerous, that they have not yet been realized.

An outstanding feature of Mr. Wensley's life is his self-education. He attended no preparatory school or college whatsoever, so his technical education has been acquired entirely by diligent home study.

ALUMNI ASS'N MEETING

President Earle, Professors Allen Sherwood, H. B. Smith, and Taylor, and Doctor Hollis last week attended the Alumni reunion in New York City at the Fraternity Club. President Earle was the principal speaker of the evening. There were also short speeches by some of the professors present.

There were present also representatives from the Alumni Associations of Boston, Philadelphia, and Pittsburgh.

PROF. SMITH NOMINATED

(Continued from Page 1, Col. 5)

From that time on his career has been one of steady advancement. He spent a year as the chief designer and electrical engineer of the Elektron Mfg. Company at Springfield, and then from 1893 to 1896 he was at Purdue University as director of the electrical engineering department. Since 1896 Worcester Tech has very fortunately had the benefit of his services, and here he has served as head of the electrical engineering department.

Since Professor Smith has been here he has also been active in many other branches of his profession, for he has served as Electrical engineer, designer, and consultant for the Westinghouse Electric Company since 1905. While he has been working with that company he has carried on an extensive series of researches in the high voltage field, including pioneer construction of high potential power transformers and insulators.

Although very busy in college work and in the field of research, Professor Smith has found time to take an active part in the work of the society. He was a member of the board of directors, 1920-1926; vice-president of the New England District, 1924-1927; chairman of sections committee, 1924-1927; chairman of sub-committee meetings and the paper co-ordinating committee, 1925-1926; chairman of the sub-committee on regional meetings, 1924-1926; chairman of the program committee of sections committee conference at the annual convention, 1924; and chairman of the committee on code of principles of professional conduct, 1928-1929.

Among the many societies of which he is a member we find Sigma Xi, Beta Theta Pi, Tau Beta Pi, American Society of Mechanical Engineers, Society for the Promotion of Engineering Education, and the Institution of Electrical Engineers of Britain. Aside from all his other activities he has found time to serve on the grand jury of awards in electrical engineering at the St. Louis exposition, 1904; to serve during the war as an associate member of the Naval Consulting Board and as consulting engineer of the navy on anti-submarine devices; and to write many monographs and contributions to societies and engineering publications.

1932 DRAWS UP CONSTITUTION

During the past month, the division leaders of the Freshman class, with Alfred Kelsey as chairman, have been concentrating on a constitution to submit to the approval of the class. This has not been an easy task, but gradually, and at such times when the class has congregated, changes and improvement, have been made, until it was finally accepted on December 13.

The Constitution of the Class of '32 is as follows:

CONSTITUTION

Class of 1932

ARTICLE 1: NAME

The name of this class shall be the "Class of 1932 of the Worcester Poly-Technic Institute."

ARTICLE 2: MEMBERS

The members of the Class of 1932 shall be those persons enrolled in the books of the Institute as belonging to the class of 1932.

ARTICLE 3: OFFICERS

Section 1

The officers of this class shall be a President, Vice-President, Treasurer, Secretary, Auditor, Historian and Member-at-Large.

Section 2

DUTIES OF THE OFFICERS

The President shall preside at all meetings and may call meetings at his discretion or upon petition of a quarter of the class.

The Vice-President shall in the absence of the President assume all duties of President.

The Treasurer shall have charge of all class funds and the collection thereof, and shall keep an accurate and permanent record of all money transactions and shall present to the class and to the Tech Council before the end of his term a duly audited report.

The Secretary shall keep a permanent record of all business transacted by the class and shall post all notices of meetings.

The Auditor shall audit the books of the Treasurer before a report of these books is made to the class.

The Historian shall keep a permanent record of all activities of the individuals of the class in the school. The Historian may select one assistant.

The Members-at-Large may serve on all committees and shall take charge of all inter-class activities.

ARTICLE 4: ELECTIONS

Section 1

The Nominating Committee shall be appointed by the President in the first week of each semester. The committee shall consist of one member from each division and shall have at least five members. This committee shall also act as tellers in the Class elections.

Section 2

The names of all nominees chosen by the nominating committee shall be presented to the class the second week of the semester.

Section 3

There shall be at least three (3) candidates for the office of President, two (2) for each remaining office.

Section 4

Election shall take place during the third week of the semester, only plurality vote being necessary for election. In case of tie succeeding ballots shall be taken upon the tying candidates.

Section 5

All elections shall be made by printed ballots.

ARTICLE 5: MEETINGS

Section 1

The Secretary shall post notices of all meetings at least two days preceeding the meeting, if possible.

Section 2

A quorum shall consist of two-thirds (⅔) of the enrolled members of the Class.

Section 3

The rule of procedure in all meetings shall be according to Cushings Manual

ARTICLE 6: DUES

Section 1

The dues shall be fifty cents (50c) each semester, to be paid one month after the semester opens.

Section 2

No member not having paid his dues may vote. The first semester of the scholastic year 1928-1929 is excepted.

Section 3

Upon recommendation of the Treasurer, special assessments may be made on the Class upon their adoption by the Class. A two-thirds (⅔) vote shall be necessary for the adoption of a special assessment.

ARTICLE 8: Permanent Officers

Section 1

The Permanent Officers of this Class shall be the President, Vice-President, Secretary, Treasurer, Auditor, and Historian.

Section 2

Duties of Permanent Officers

The duties of Permanent Officers shall be the same as those of officers under Article 3, Section 2. The term shall be until death or until impeached by a twothirds (⅔) affirmative vote of the living members of the Class.

ARTICLE 9:

Election of Permanent Officers

Section 1

The nominating committee shall be appointed by the President six weeks before Commencement. The committee shall consist of one member from each division and shall have at least five (5) members. This committee shall act as tellers in the Class election.

Section 2

The names of all nominees chosen by the nominating committee shall be presented to the Class five (5) weeks before Commencement.

Section 3

There shall be at least three candidates for the office of President, two for each remaining office.

Section 4

Elections shall take place four (4) weeks before Commencement. A majority vote shall be necessary for election. In case of tie succeeding ballots shall be taken upon the tying candidates until a majority is obtained.

ARTICLE 10: AMENDMENTS

Section 1

Proposed amendments, after being moved, shall be laid over at least one week before being voted on. Then an affirmative vote of two-thirds (⅔) of the Class shall be necessary before the adoption of the amendment.

CARNIVAL HELD TONIGHT

(Continued from Page 1, Col. 3)

"Julius Caesar for Moderns," in their efforts to capture the cup awarded annually by the "Y." The Sophomore act, directed by "Jack" Davidson, is well under way, and it bids fair to introduce plenty of surprises in the line of "Action" which is its title.

The program will be varied by selections by the Glee Club, Banjo-Mandolin Club, and the Boyntonians. This will be the first public appearance of any of the Clubs of the Musical Association.

The Boyntonians will furnish music for dancing from ten until one, during which time ice cream will be on sale. As usual, candy made by the ladies of the college offices will be sold during the entertainment by daughters of the Faculty.

Tickets for the Carnival have been distributed in each division and sell for fifty cents.

The program has been arranged as follows:

I. Selections by Boyntonians.

II. Freshman Act: "Julius Caesar for Moderns."

Characters

Caesar ..... Francis Bartlett
Brutus ..... Luther Puffer
Cassius ..... Edward Allen
Antony ..... E. R. Belcher
Portia ..... Robert McMaster
Calpurnia ..... Louis Greene
Soothsayer ..... Leonard Peters
Scene I. A Street in Rome.
Scene II. A room in Caesar's Palace.
Scene III. The Forum.

III. Selections by Banjo-Mandolin Club.

IV. Sophomore Act: "Action."

Characters

Kelly ..... G. M. Siegel
His Son ..... O. R. Underhill
K. S. (a frosh) ..... F. J. Burgoyne
Stage Manager ..... R. W. Fairbanks
Banny ..... J. F. Devaney
Juniors .....
(1) Allan Weissinger
(2) N. L. Clark
Sophomores .....
(1) R. H. Guenther
(2) J. E. Totas
(3) A. W. Gove
(4) L. T. Dunn
Rowdy ..... R. N. Cambridge

V. Selections by the Glee Club.

VI. Faculty Act.

"We cordially invite you to attend a birthday dinner given in honor of Professor Zelotes Wood Coombs to be held in the Rat-Cellar of the Dormitory, Tuesday, December 11."

VII. Dancing in order, ten to one.

CHEMISTS HAVE MEETING

(Continued from Page 1, Col. 1)

dustry." He indicated the importance of this process by making the statement that four billion gallons of gasoline were produced in this way last year. The cracking process converts petroleum of low economic value to petroleum of high economic value. This cracked gasoline in the vapor phase is used as an anti-knock gas and for blending with ordinary gasoline.

Russell Corsini concluded the discussion with an address on a new solution used for the detection of aluminum. This solution is known by the trade name as Aluminon. The speaker used structural formulas to put his talk more plainly before the audience and gave several demonstrations of the value of the new reagent, which will detect one part of aluminum in twenty million parts of water.

RIFLE TEAM LOSES TO RENNSELAER POLYTECH

More Men Are Requested to Report

The Rifle Team has already been pitted against Rennselaer Team in which W. P. I. was at the low end of a 1979—1174 score. The members of the team were not discouraged but are confident that they will give a better account of themselves in their match with Williams.

There is plenty of room for good men on the team and Manager Sorenson is very anxious to have more men report. All men who are interested in the club should report at the range and try out for the team. Anyone wishing to join the Club should see H. A. Sorensen or P. C. Schmidt.

The team has a hard schedule ahead of it this year. Besides the matches scheduled below, the team will be matched against Norwich, M. I. T., B. U., Dartmouth, University of Vermont, Williams, and Amherst in the N. R. A. League's matches, the dates of which are not yet available.

December 8 ..... Williams
December 13 ..... Syracuse
December 15 ..... Amherst
January 12 ..... DePamo
January 19 ..... Carnegie
January 19 ..... Maine
Jauary 19 ..... Connecticut A. C.
January 26 ..... Massachusetts A. C.
March 23 ..... Amherst
April 13 ..... Oklahoma A. M.

Thomas K. Sherwood, Assistant Professor of Chemical Engineering, attended a meeting in New York, on December 5, of the National Research Council Committee on Heat Transmission, of which he is a member. This committee plans an extensive program of research on heat transfer in condensors, coolers, feed water heaters, oil heat exchangers, air pre-heaters and similar types of equipment. Professor Sherwood has for several years specialized in this branch of Chemical Engineering, and expects to continue research work at W. P. I. along these lines. While in New York he attended the meetings of the A. S. M. E., and the dinner of the New York Alumni Association, held at the Fraternities Club on the evening of December 6.

SWIMMING TEAM WILL OPPOSE BROWN

(Continued from Page 1, Col. 5)

Tech with much opposition. Hall ranks high among the best of free-stylers in the East, and he will need careful watching.

Five veterans from last year's team will again wear the Tech insignia this season. They are Rogers, Larson, Holcombe, Perry and Tawter. These men have been constant point-getters in former meets, and it is hoped they will continue their fine work against Brown.

Among the newcomers to the team are Emerson, a former Brown student who excels in the breast-stroke and who will compete against his former mates. There is also Fittz, a new find in the backstroke, who should annex several points to Tech's score. Another well-known newcomer to the team is Osipowich, a freshman, who has a reputation in Worcester swimming circles as an aquatic star of no small calibre. Others on the team are Werme, Palm, Sage, Locke, Fish, Driscoll, Tinker Haskell and Peters.

The present list of men who are expected to swim this Saturday in the following events are as follows; 300 medley relay: Fittz, Emerson, Perry; 40 yd. dash: Holcombe, Rogers; 440 yd. swim: Osipowich, Tinker; Diving: Tawter Fish; 150 yd. back-stroke: Fittz, Werme; 100 yd. dash: Holcombe, Rogers; 200 yd. breast-stroke: Larson, Emerson; 160 yd. relay: Holcombe, Osipowich, Larson, and Rogers.

SIGMA XI HEARS TALK BY MR. L. E. OGDEN

Welding and Cutting Discussed

The first meeting of the Worcester Chapter of the Society of the Sigma Xi for the current year was held Wednesday, December 5, at 8:00 P. M. in the Lounge Room of Sanford Riley Hall.

Invitations were sent out by the secretary, Professor Harold J. Gay, to the members, who were urged to invite interested friends.

The speaker of the evening, Mr. L. E. Ogden, W. P. I. '10, Vice President and General Manager of the Oxweld Acetylene Company was introduced by President M. E. Smith. He spoke on "Oxwelding and Cutting of Metals". Motion pictures were also shown.

An exceptionally large number attended the meeting, among them being many industrial men of the city.

SECONDS SQUAD SHOWS PROMISE

Announcement of Second Team's Schedule is Made

The second team will open their schedule against Oxford High on Friday Dec. 21, their game being preliminary to the Harvard-Varsity contest At the present time the squad is composed of ten men, who give promise of turning out an excellent quintet. Of the ten, all but two are freshmen, while the other two are sophomores. The team is being taught the principles of the Bigler system of basketball by Professor Maxfield, who also coached the second quintet last season.

The men on the squad for the present are: Bayon, Blouin, Cullen, Hager, Larson, Leach, Peterson, Seelert, Thiesen, and Walker.

As the remainder of the schedule is composed of some of the fastest high school teams in the county, there will evidently be some exciting preliminary contests in the gymnasium during the forthcoming season. The schedule is:

Dec. 21—Oxford High
Jan. 5—Commerce High
Jan. 12—Trade School
Jan. 19—Northboro High
Jan. 26—North High
Feb. 9—Classical High
Feb. 16—Clark Seconds
Feb. 22—Boys' Club
Feb. 23—Fitchburg High
March 2—South High
March 6—Clark Seconds

GLEE CLUB ADDRESSED BY PRESIDENT EARLE

Mr. Hanscom Retained as Director

A meeting of the Musical Association was held Monday evening, November 26, in the reception room of the gymnasium.

President Earle addressed the association, complimenting its members on the past year's performances. He said that the Musical Association is valuable for the advertisement it gives the college and is just as well-known as the Tech athletic teams. He also stated that Mr. Dean Hanscom has been retained this year as leader of the Glee Club and that he has been added to the college staff of instructors. This will help to decrease the expenses of the Association. The Musical Association will elect its officers, as before, and the men elected will do their duties under the direction of Mr. Hanscom. This is another of the changes which the Association has undergone since a year ago when a drive was begun for a group of clubs which would do credit to Worcester Tech.

TECH SHOWS INCREASED RED CROSS MEMBERSHIP

Ten Percent of Students Enroll

The annual Red Cross drive which began in November has been concluded with ten per cent of the student body enrolled. A graduated scale-tube in Boynton Hall has shown the gradual daily increase in membership. of the one hundred and two dollars which were contributed to this worthy cause, sixty-one dollars or approximately sixty percent of the total sum, was given by the student body, and the remaining forty per cent by instructors, professors and their families. This year's drive has shown a slight increase as compared with last year's, but it is hoped that next year, the drive will result in even more favorable results.